CHARGE NUMBER: Project 1902

PROJECT TITLE: Microbial Technology

PERIOD COVERED: February 1-28, 1983

PROJECT LEADER: V. S. Malik VS Malik

DATE OF REPORT: February 3, 1983

BIOTRANSFORMATION OF IONONES (J. Lyle, D. Christmann)

Selected isolates of molds, bacteria, yeasts, fungi and streptomycetes were grown in various media. Beta and alpha ionones were added to the growing cultures after the second day of inoculation. Broths of growing organisms were extracted with methylene chloride at regular intervals for a period of three weeks and methylene chloride phase examined by liquid gas chromatography. This experiment has been completed on about two dozen isolates to obtain kinetics of products of biotransformation of ionones. These selected cultures will be further examined for their ability to modify ionones and will be sent to American Type Culture Collection for taxonomic placement.

BIOTRANSFORMATION OF MENTHOL (V. Malik)

Menthol was added to growing cultures and the broths examined for the biotransformation product of menthol. Several organisms have been selected that modify menthol into novel derivatives. These microbially modified menthols may be of value in enhancing the flavor properties of smoke.

VIABILITY OF CULTURES (J. Lyle, D. Christmann)

The valuable cultures have been restreaked to check their purity and viability. The work on storage and maintenance of cultures was performed as usual.

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